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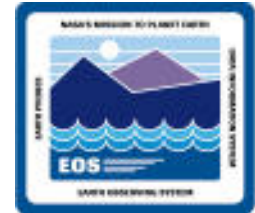
# Data Assimilation System

**Bill Bass**

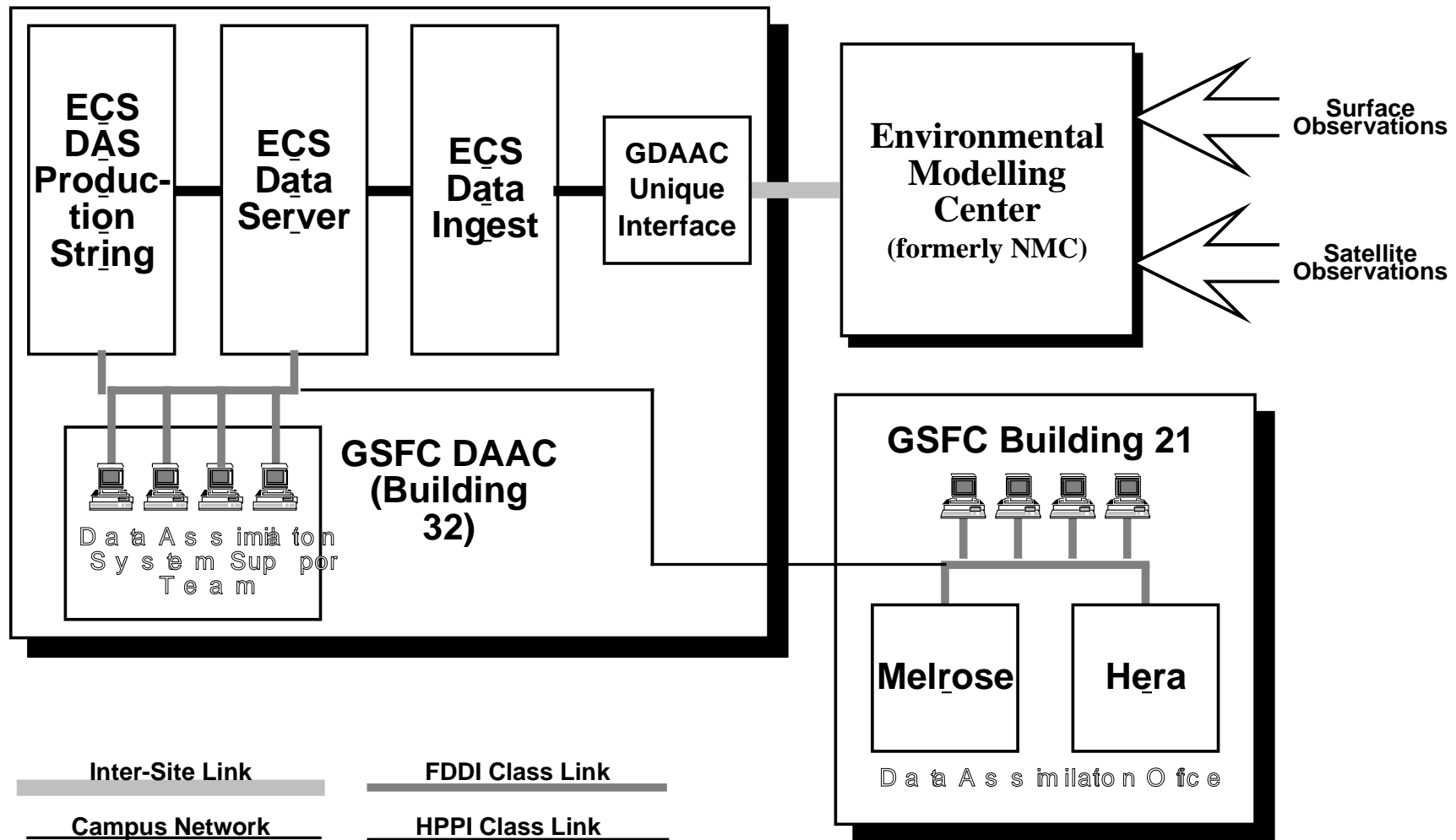
**bill@eos.hitc.com**

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**2 November 1995**

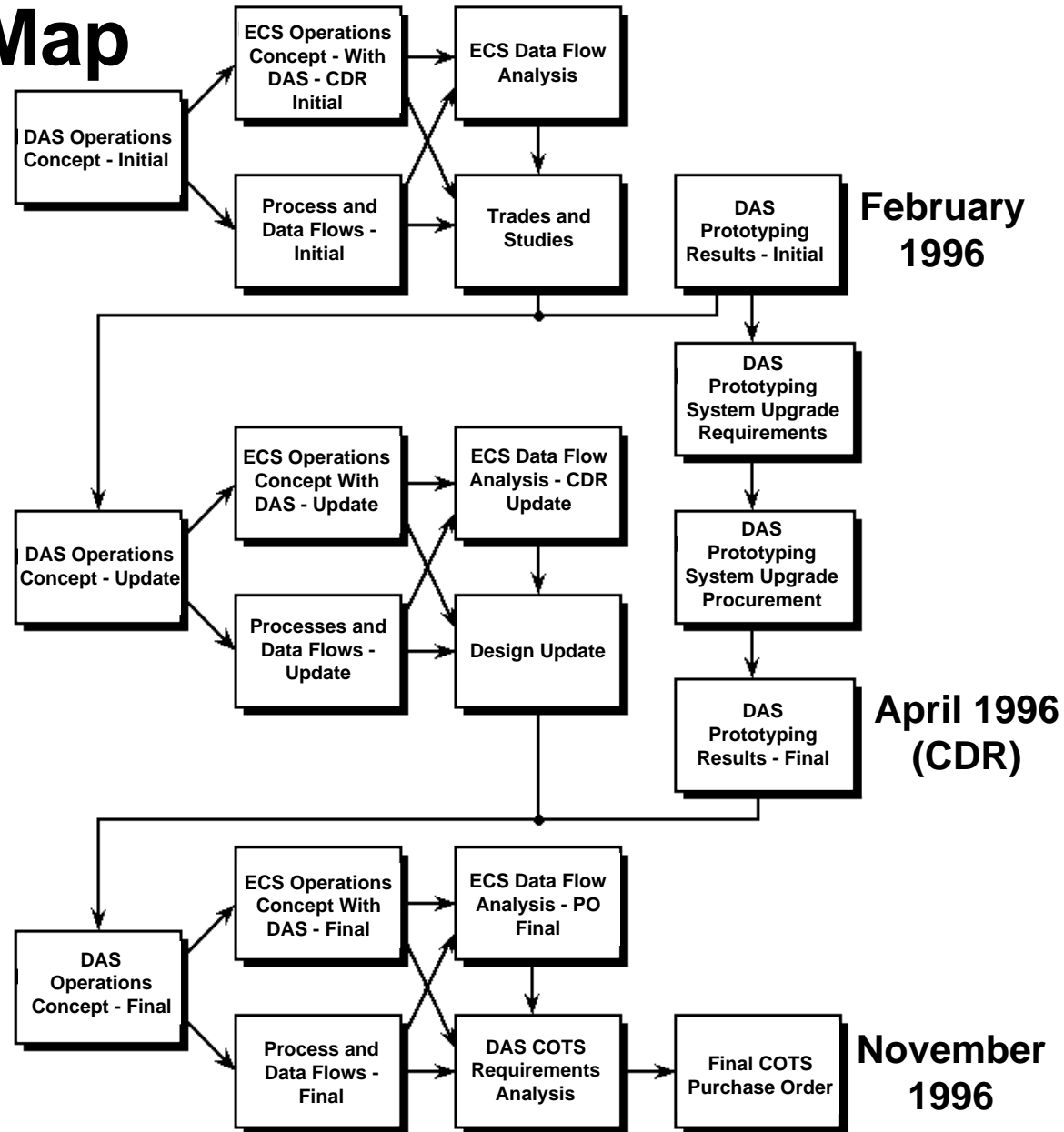


# 1998 DAS Configuration





# Road Map



# Trades and Studies



<u>Subsystem / Area</u>	<u>Questions</u>
<b>Data Processing Subsystem (DPS)</b>	<p><b><u>Toolkit:</u></b> What toolkit capabilities are needed and when? What platforms?</p> <p><b><u>Algorithm Integration and Test:</u></b> Will DAS be AI&amp;T'd on the same hardware that it does operations?</p>
<b>Analysis</b>	<p><b><u>Algorithm Instability:</u></b> What are the implications of DAS' higher than "normal" propensity for failing? Staffing? Scheduling? Resource Management?</p> <p><b><u>Research and Development:</u></b> What are the implications of running uncontrolled and controlled software on the same system? What are the ECS operations concepts for supporting the Research and Development activities?</p>



# Trades and Studies (cont.)

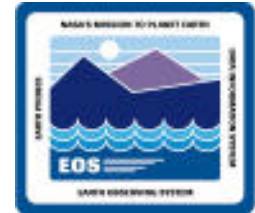
<u>Subsystem / Area</u>	<u>Questions</u>
<b>Data Server Subsystem (DSS)</b>	<p><b><u>Dedicated Mass Storage:</u></b> What is the best way of satisfying the expressed need for about 8 TB of dedicated DAS mass storage?</p> <p><b><u>Data Server Configuration:</u></b> What data server loads are needed to support DAS and the distribution of its products?</p>
<b>Planning Subsystem (PLS)</b>	<p><b><u>ECS Scheduler Compatibility:</u></b> To what extent does the ECS scheduler meet the DAS' needs? How does the scheduler coexist with Research and Development?</p> <p><b><u>ECMWF Scheduler:</u></b> Can this NDI scheduler better suit DAS? Is it better suited to the COTS thing ECS is using?</p> <p><b><u>Multiple Platform Scheduler:</u></b> How will the ECS scheduler manage a shared memory distributed computing architecture?</p>



# Trades and Studies (cont.)

<u>Subsystem / Area</u>	<u>Questions</u>
Operations and Maintenance	<b><u>Algorithm Delivery Schedule:</u></b> What is the incremental plan for integrating the DAS with the rest of ECS? What deliveries are required and when?
Infrastructure Support	<p><b><u>Communication Fabric:</u></b> What is the best approach for inter-connecting the DAS hardware? How should the DAS environment be connected externally?</p> <p><b><u>Multiple Platform Management:</u></b> Do ECS management concepts need to be extended for DAS' distributed architecture?</p> <p><b><u>Communication Services:</u></b> Will the use of ECS communication services (e.g. DCE) be required for DAS operations?</p>

# Next



## Plan Coordination

### Kick-off DAO Task Team

- Multiple Release Support
- Development Engineering
- Operations and Maintenance

### Develop DAS Transition to Operations Plan